AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph that begins on page 9, line 13 as follows:

As ~~shown in Fig. 2~~shown in Figs 2A and 2B, the diaphragm 34 has a characteristic construction described as follows. Here, the upside of Fig. 2A is the pressure introduction port side (i.e., PR INTRO SIDE), and the lower side of Fig. 2A is the pressure detection chamber side (i.e., PR DETEC SIDE). The circumference 34a of the diaphragm 34 having a plate shape is fixed to the case. The diaphragm 34 has a corrugate 34c, which is disposed concentrically with a center 34b of the diaphragm 34, and has a half circular cross-section. The cross-section of the corrugate 34c is a half circle having a top 50. A distance L between the top 50 of the half circle, i.e., the top 50 of the corrugate 34c and the circumference 34a of the diaphragm 34 is equal to or larger than 0. 4R, when the radius of the diaphragm 34 is R. In other words, the top 50 of the corrugate 34c is disposed within a distance of 0.6R from the center 34b. The corrugate 34c has a height H, which is about 0.04R. Preferably, the top 50 of the corrugate 34c is disposed within a distance of 0.5R from the center 34b, i.e., the distance L of the corrugate 34c is equal to or larger than 0.5R. More preferably, the top 50 of the corrugate 34c is disposed at the distance of 0.5R from the center 34b, i.e., the distance L of the corrugate 34c is equal to 0. 5R. In other words, the top 50 of the corrugate 34c is disposed on a middle circle between the center 34b of the diaphragm 34 and the circumference 34a of the diaphragm 34.

Please amend the paragraph that begins on page 10, line 9 as follows:

In this embodiment, the radius R of the diaphragm 34 is 6mm, i.e., the diameter of the diaphragm 34 is 12mm. A thickness of the diaphragm 34 is 50f.lm. The diaphragm 34 is made of ~~stainless steal~~ stainless steel and the like, and formed by a press working method. The distance L of the corrugate 34c is 0.5R.

Please amend the paragraph that begins on page 22, line 2 (the abstract) as follows:

~~Pressure sensor~~A pressure sensor includes a casing having a pressure detection chamber, a diaphragm for receiving pressure of a measuring object and disposed on the casing, and a pressure detection element. The pressure detection chamber is filled with a liquid, and t.he diaphragm contacts the liquid. The pressure detection element is disposed in the pressure detection chamber to receive the pressure of the liquid. The diaphragm has a plate shape with a radius of R and includes a circumference and a center of the plate. The circumference is fixed to the casing. The diaphragm further includes a corrugate disposed concentrically with the center of the diaphragm and having a half circular cross-section and a top of the half circle. The top of the corrugate is disposed within a distance of 0.6R from the center of the diaphragm.